

# United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/650,572	08/27/2003	Ronald A. Hellekson	200209930-1	8206
75	90 11/17/2004	EXAMINER		
HEWLETT-PACKARD COMPANY			CLARK, JASMINE JHIHAN B	
Intellectual Property Administration				
P.O. Box 272400 Fort Collins, CO 80527-2400			ART UNIT	PAPÉR NUMBER
			2815	

DATE MAILED: 11/17/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summary	10/650,572	HELLEKSON ET AL.				
Office Action Summary	Examiner	Art Unit				
	Jasmine J Clark	2815				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on						
2a) ☐ This action is <b>FINAL</b> . 2b) ☒ This						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-40</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>9-40</u> is/are allowed.						
6)⊠ Claim(s) <u>1</u> is/are rejected.	6)⊠ Claim(s) <u>1</u> is/are rejected.					
7)⊠ Claim(s) <u>2-8</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
	armirer. Note the attached Chice	7,000 0 10 m 1 1 0 102.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
		•				
Attachment(s)						
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date.						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>08/27/03</u> .	5)  Notice of Informal P 6) Other:	atent Application (PTO-152)				
S. Datent and Trademark Office	,					

Application/Control Number: 10/650,572 Page 2

Art Unit: 2815

## **DETAILED ACTION**

#### Title of the Invention

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

#### Abstract

2. The abstract of the disclosure is objected to because the abstract is too short. It should be within the range of 50 to 150 words. Correction is required. See MPEP § 608.01(b).

## Specification

3. The disclosure is objected to because of the following informalities: the "Brief of the Summery of the Invention" are missing. Please see an example of "Content of Specification" below.

## Arrangement of the Specification

As provided in 37 CFR 1.77(b), the specification of a utility application should include the following sections in order. Each of the lettered items should appear in upper case, without underlining or bold type, as a section heading. If no text follows the section heading, the phrase "Not Applicable" should follow the section heading:

- (a) TITLE OF THE INVENTION.
- (b) BACKGROUND OF THE INVENTION.
  - (1) Field of the Invention.
  - (2) Description of Related Art including information disclosed under 37 CFR 1.97 and 1.98.
- (c) BRIEF SUMMARY OF THE INVENTION.
- (d) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).
- (e) DETAILED DESCRIPTION OF THE INVENTION.

Furthermore, in page 3, para [16], line 9, "A alab-on-chip@" is incorrect.

Appropriate correction is required.

Application/Control Number: 10/650,572 Page 3

Art Unit: 2815

## Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim1 is rejected under 35 U.S.C. 102(b) as being anticipated by Nakajima et al. (US 5,270,572).

Nakajima shows a structure of a device comprising (see Fig. 1) a body comprising a primary surface adapted for attachment to a substrate die, for example an element 2 and at least partially defining a fluid chamber 10; a fill port fluidically 6 connected to the fluid chamber; and evacuate port fluidically 3 connected to the fluid chambers.

#### References Cited

4. The references of interest are cited:

Silverbrook (US 6,299,300 B1) shows a structure of an MEMS device. Love et al. (US 5,514,906), Galyon et al. (US 5,016,090), Umezawa et al. (US 5,023,695), and Ashiwake et al. (US 5,705,850) shows a structure of a device including a cooling device.

## References Cited

5. This application was searched, in class 257, subclasses 712-714, 718, 719; class 361, subclasses 614, 696, 731, 796, 676, 687, 688, 689; class 174, subclasses 15.1, 17LF, 19; class 29, subclass 889.721, in view of the limitations of the claimed invention.

Application/Control Number: 10/650,572 Page 4

Art Unit: 2815

## Telephone Inquiry Contacts

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jasmine J Clark whose telephone number is (571) 272-1726. The examiner can normally be reached on Flex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on (571) 272-1664. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jjbc/11/15/04

JASMINE CLARK
PRIMARY EXAMINER

JASMULIA